

REPLACEMENT SHEET
APPLICATION NO. 10/648,791



RULE	F_1	F_2	F_3
R_1	$[e_{1,4}, e_{1,9}]$	$[e_{2,7}, e_{2,8}]$	$[e_{3,1}, e_{3,1}]$
R_2	$[e_{1,1}, e_{1,10}]$	$[e_{2,2}, e_{2,6}]$	$[e_{3,2}, e_{3,6}]$
R_3	$[e_{1,2}, e_{1,6}]$	$[e_{2,3}, e_{2,5}]$	$[e_{3,7}, e_{3,9}]$
R_4	$[e_{1,3}, e_{1,5}]$	$[e_{2,9}, e_{2,10}]$	$[e_{3,4}, e_{3,5}]$
R_5	$[e_{1,7}, e_{1,8}]$	$[e_{2,1}, e_{2,4}]$	$[e_{3,3}, e_{3,8}]$

RULE SET S
FIG. 1A

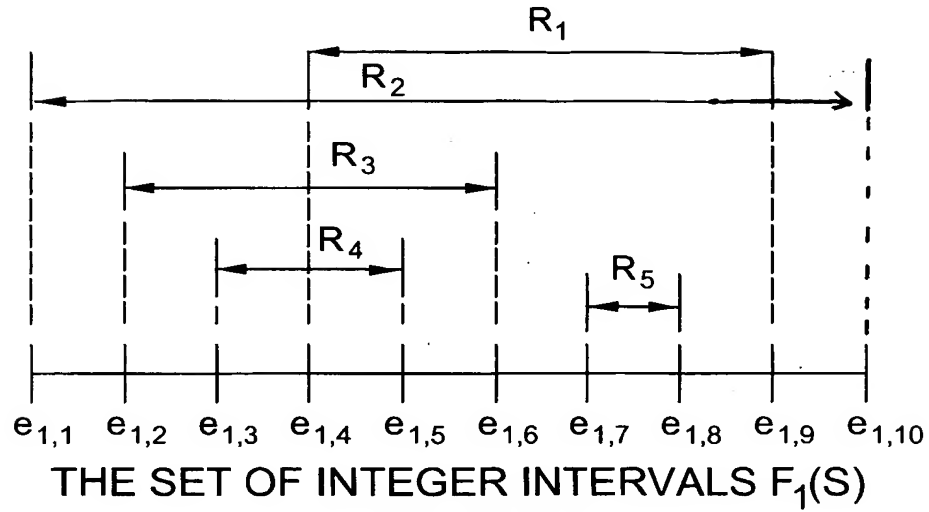


FIG. 1B

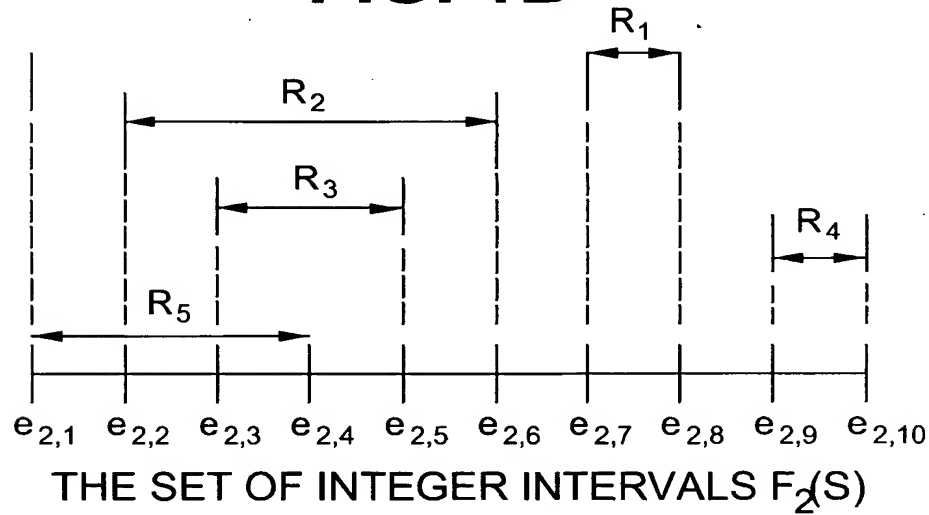


FIG. 1C

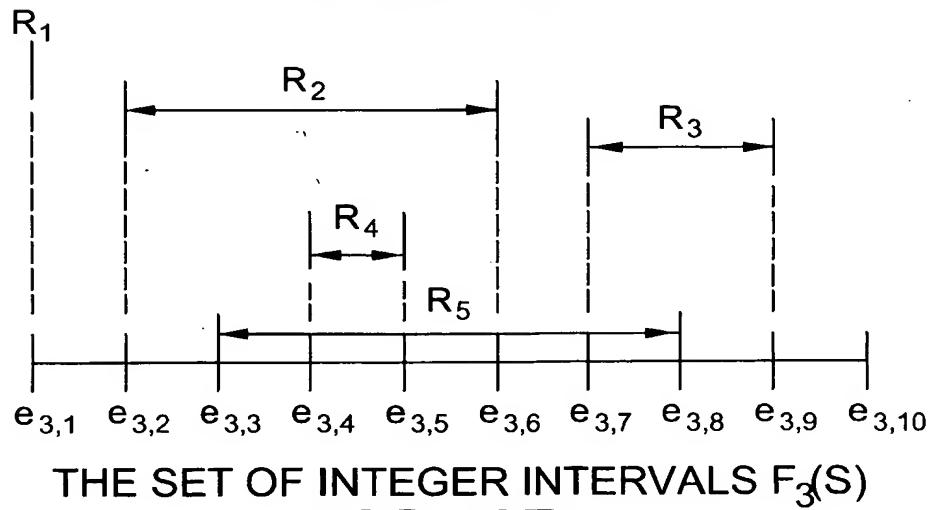
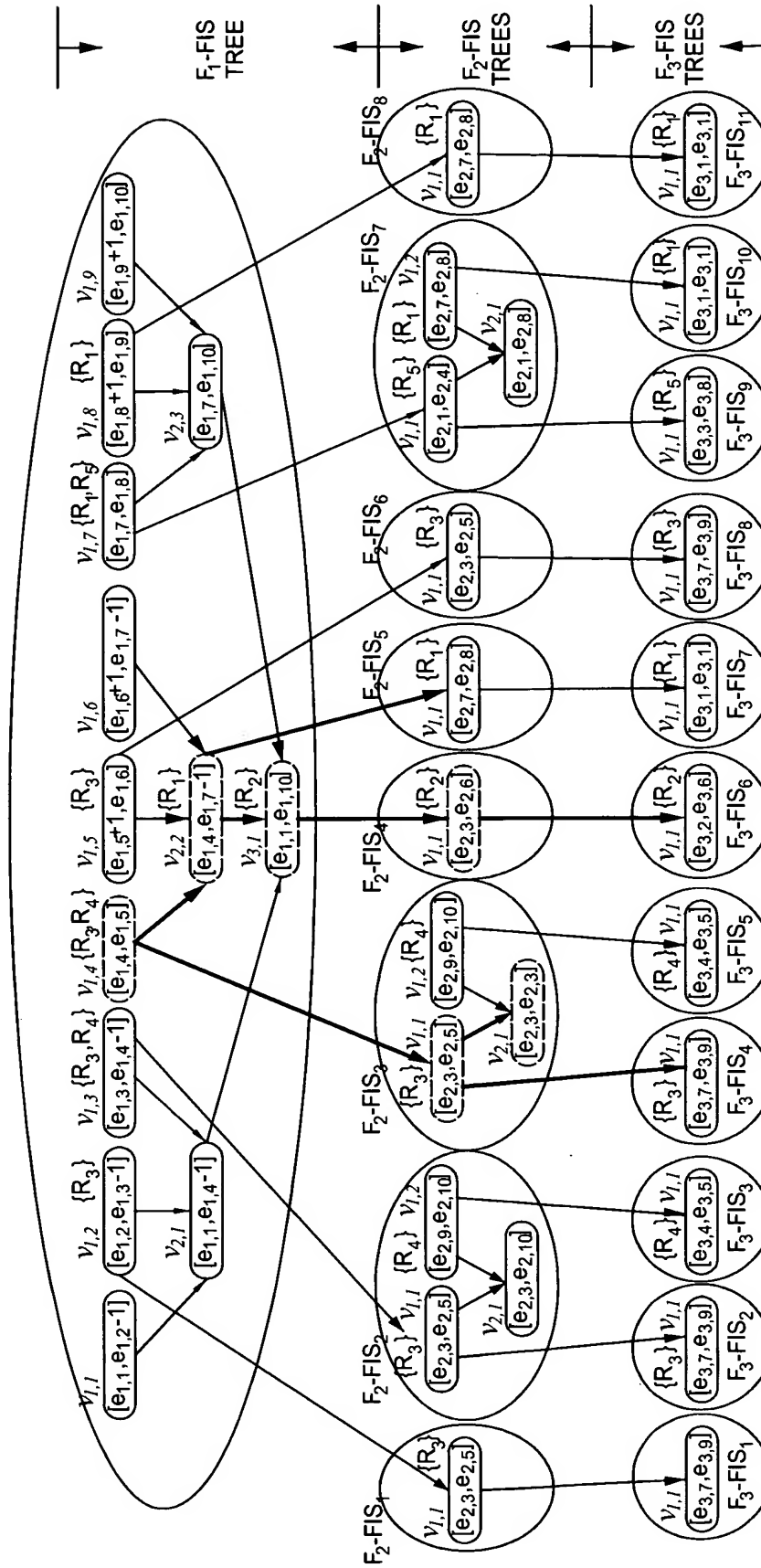


FIG. 1D

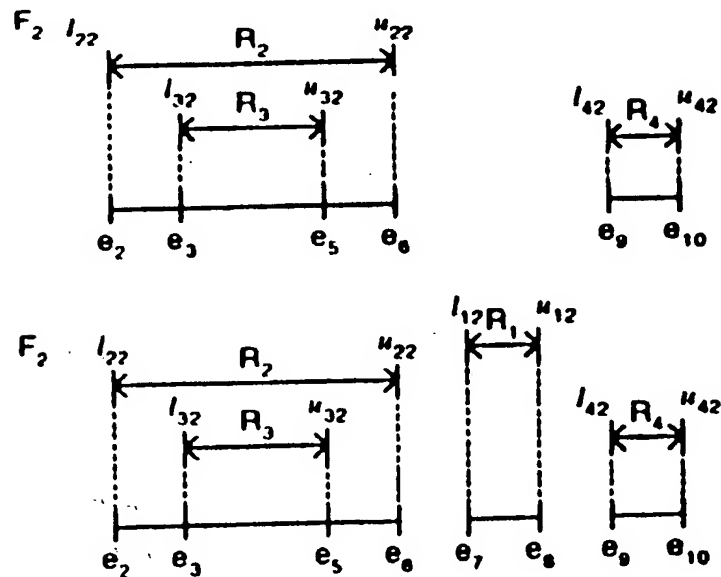


THE FIS TREES BUILT FOR THE RULE SET S AND THE
SEARCHING PATHS FOR THE PACKET P

FIG. 2

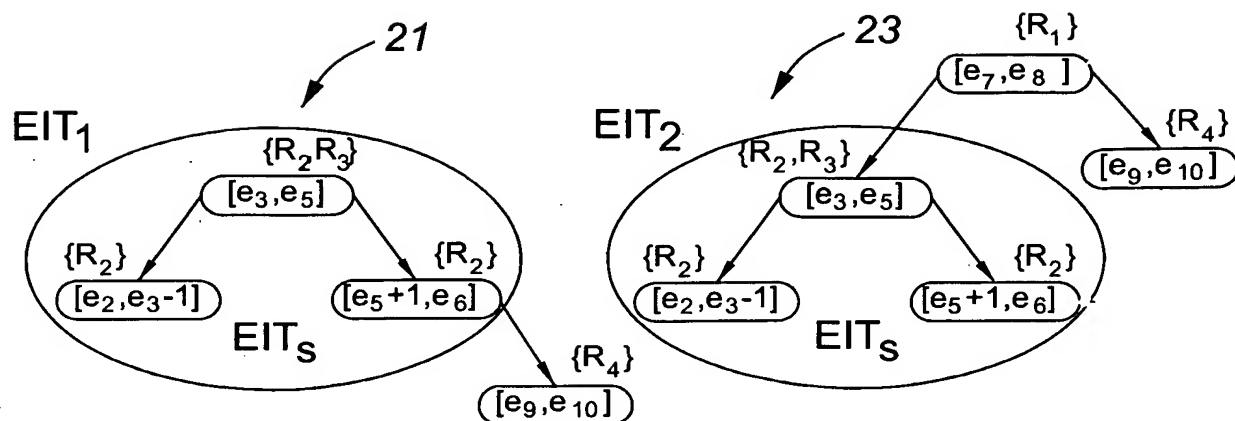
The rule table T

Rule	F_1	F_2	F_3
R_1	$[e_4, e_9]$	$[e_7, e_8]$	$[e_1, e_1]$
R_2	$[e_1, e_{10}]$	$[e_2, e_6]$	$[e_2, e_6]$
R_3	$[e_2, e_6]$	$[e_3, e_5]$	$[e_7, e_9]$
R_4	$[e_3, e_5]$	$[e_9, e_{10}]$	$[e_4, e_5]$
R_5	$[e_7, e_8]$	$[e_1, e_4]$	$[e_3, e_9]$



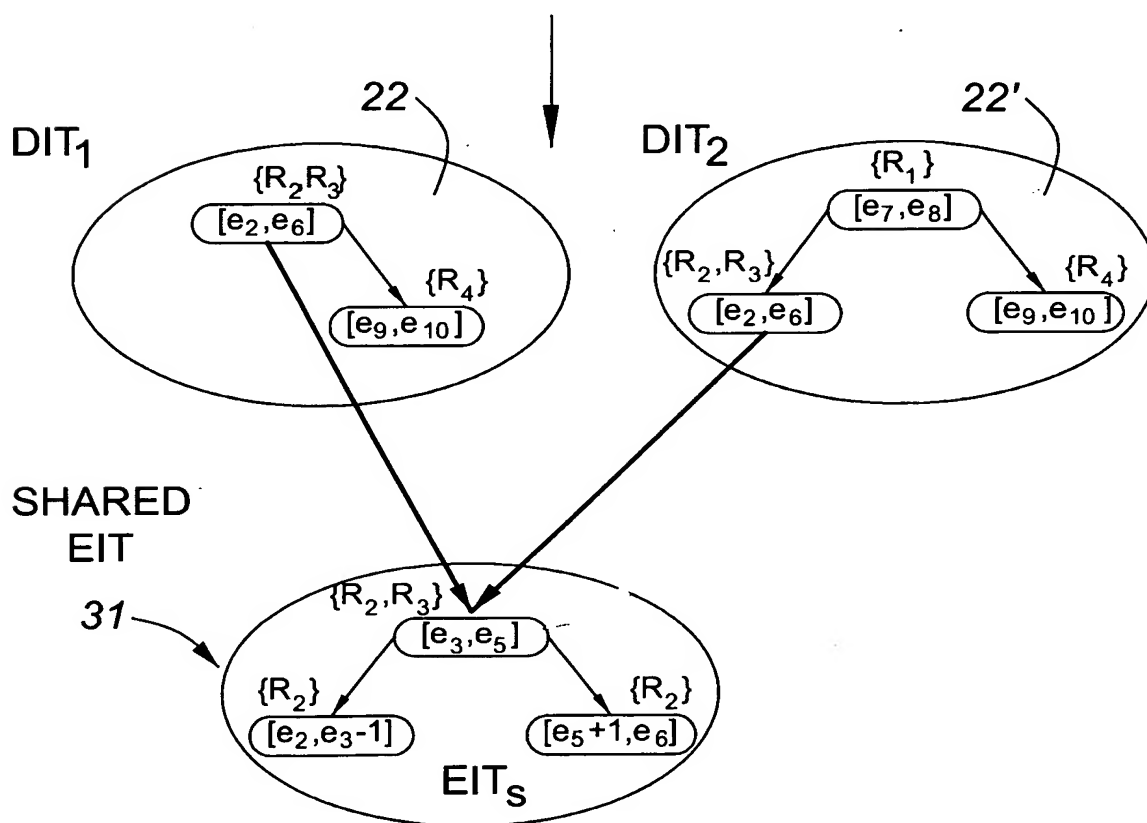
DISJOINT INTERVALS $F_2(S_1)$ AND $F_2(S_2)$,
 $S_1 = (R_2, R_3, R_4)$, $S_2 = (R_1, R_2, R_3, R_4)$

FIG. 3A



EITs CONSTRUCTED FOR $F_2(S_1)$ AND $F_2(S_2)$,
 $S_1 = \{R_2, R_3, R_4\}$, $S_2 = \{R_1, R_2, R_3, R_4\}$

FIG. 3B



DISJOINT GRAPH CONSTRUCTED FOR
 $F_2(S_1)$ AND $F_2(S_2)$, $S_1 = \{R_2, R_3, R_4\}$, $S_2 = \{R_1, R_2, R_3, R_4\}$

FIG. 3C

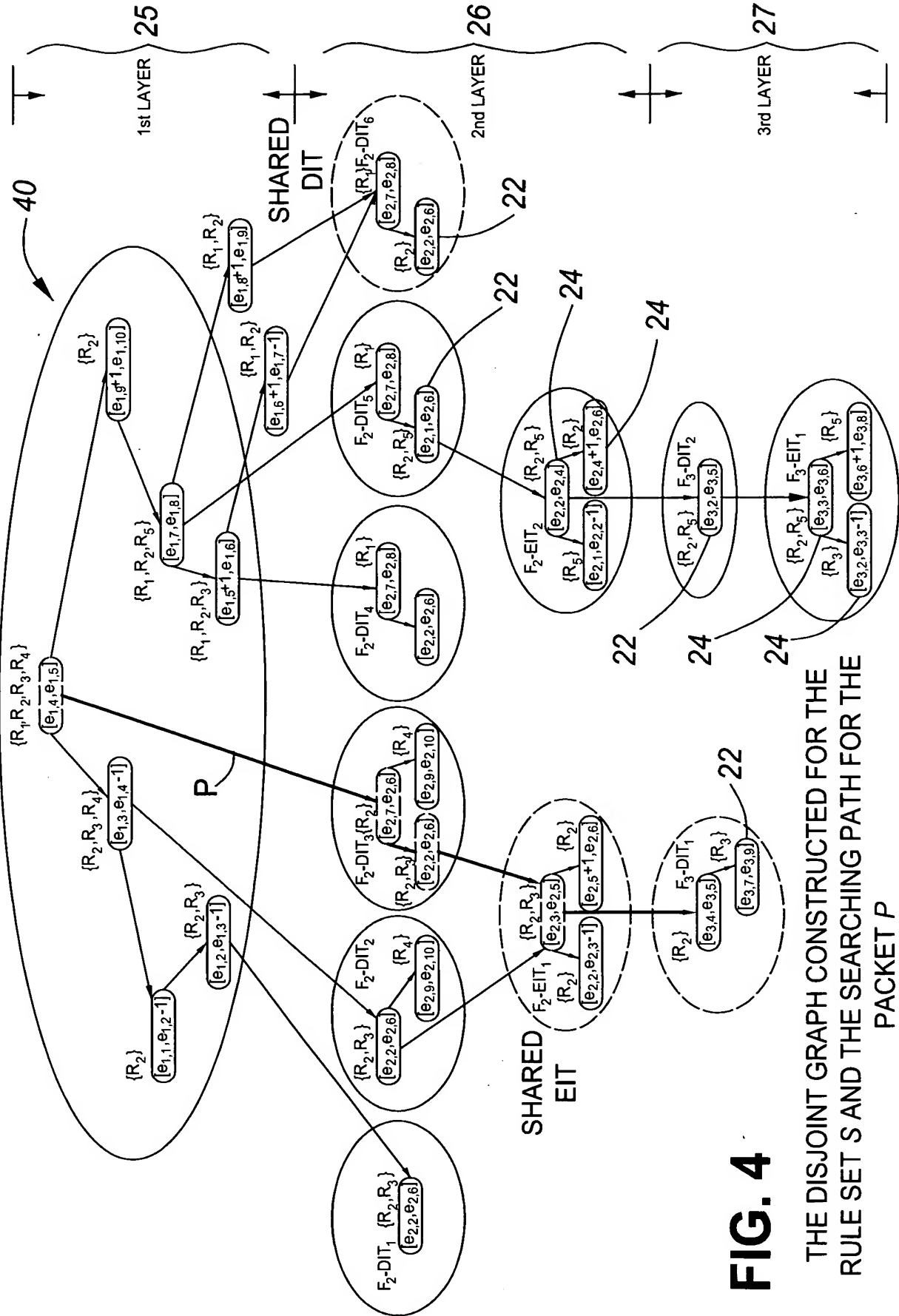


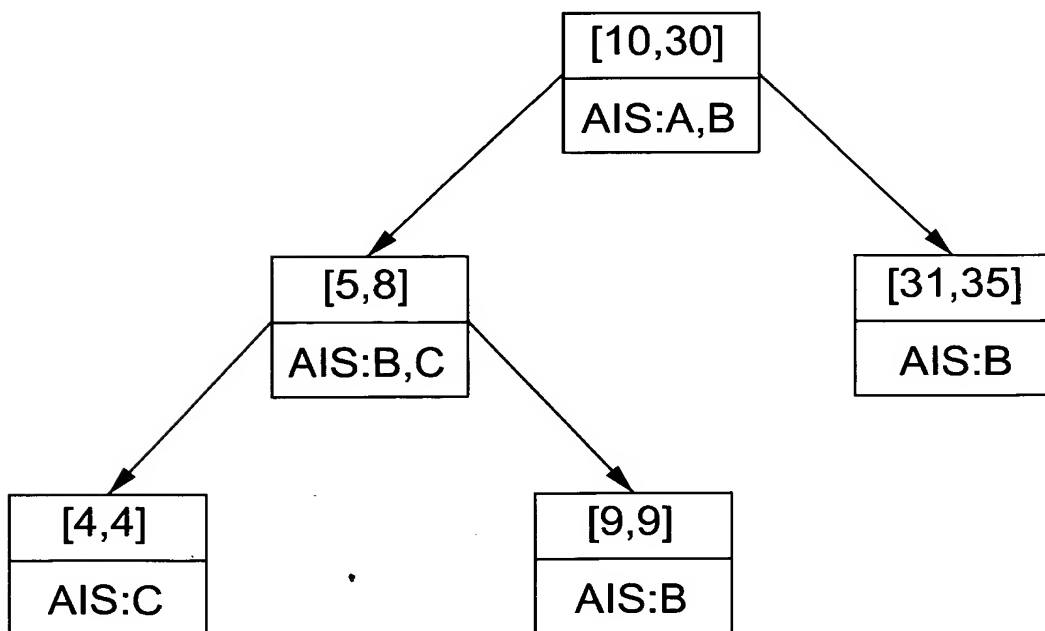
FIG. 4

THE DISJOINT GRAPH CONSTRUCTED FOR THE
RULE SET S AND THE SEARCHING PATH FOR THE
PACKET P

IDENTIFIERS	A	B	C
INTERVALS	[10,30]	[5,35]	[4,8]

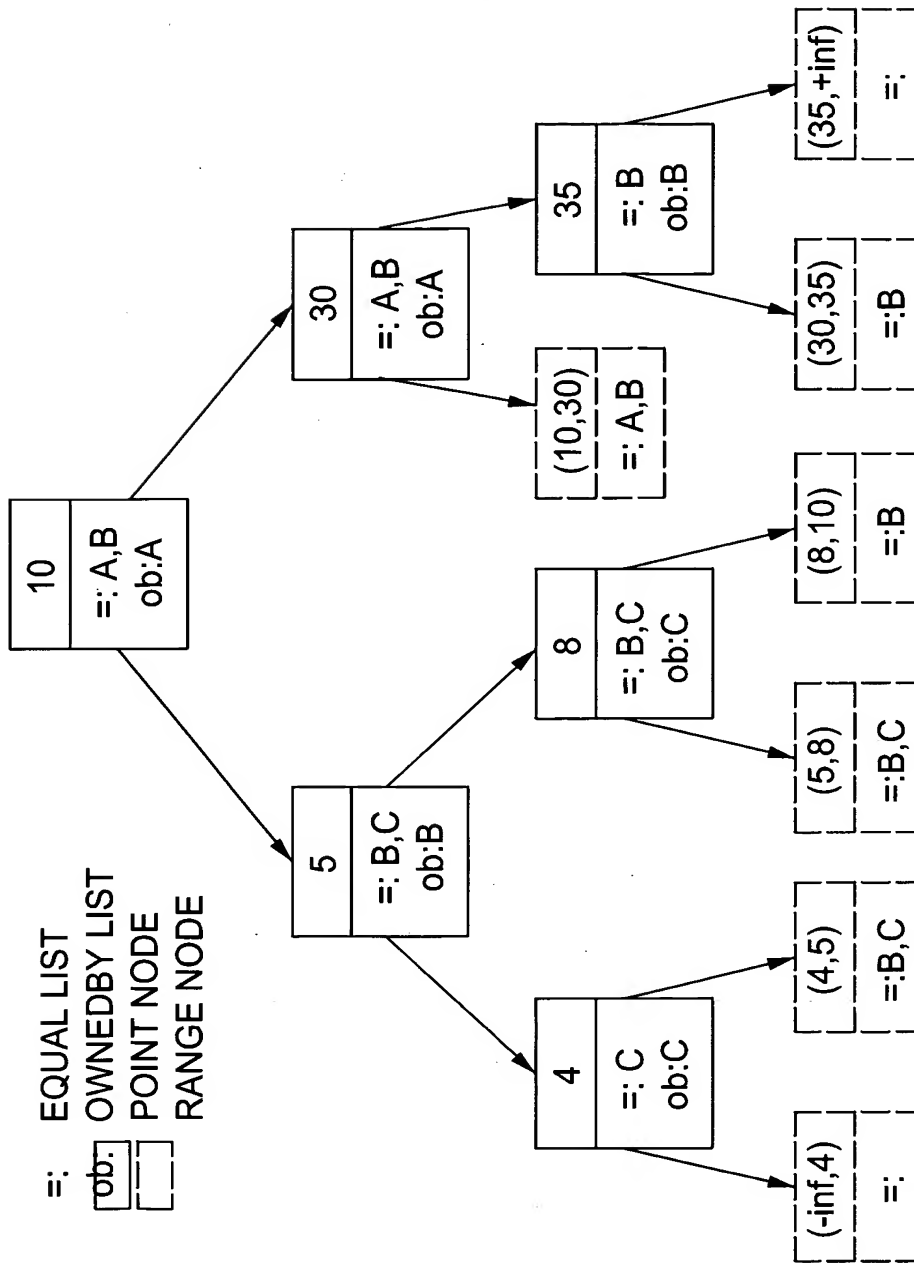
THE INTERVALS SET S WITH 3 INTERVALS

FIG. 5



THE ELEMENTARY INTERVAL TREE BUILT FOR S

FIG. 7



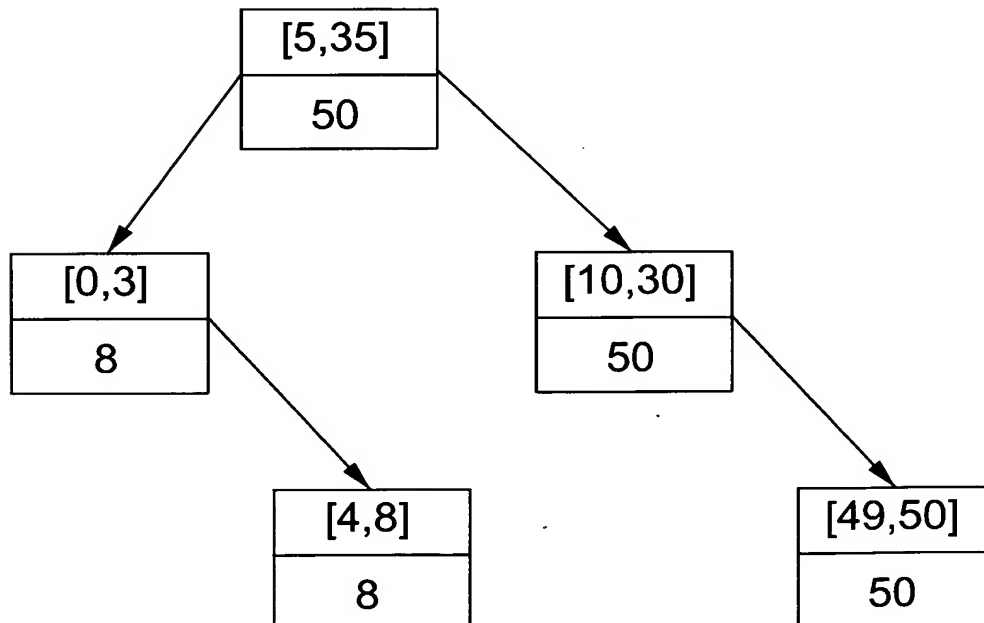
THE PR-TREE BUILT FOR S

FIG. 6

IDENTIFIERS	A	B	C	D	E
INTERVALS	[10,30]	[5,35]	[0,3]	[4,8]	[49,50]

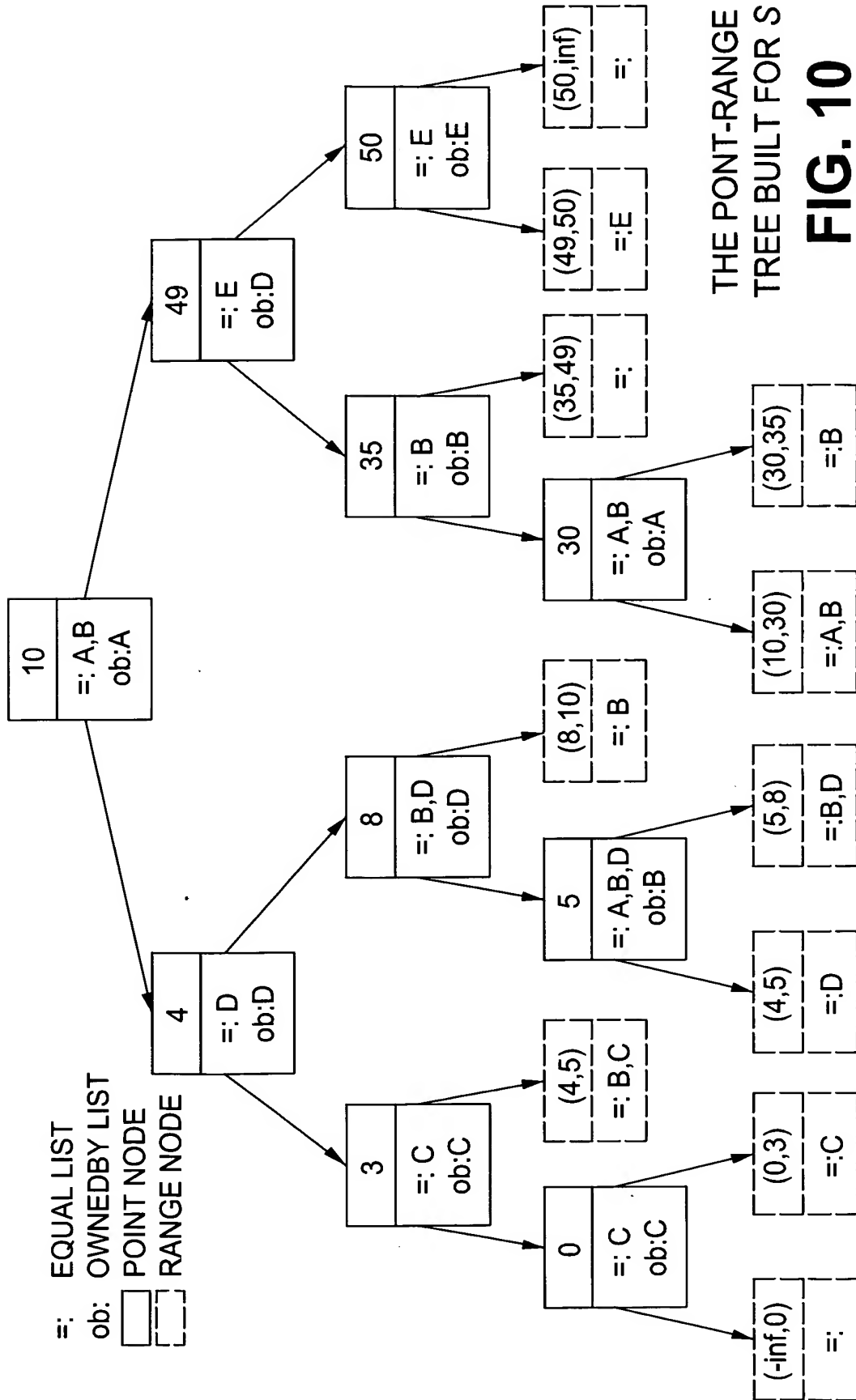
THE INTERVALS SET S WITH 5 INTERVALS

FIG. 8



THE INTERVAL TREE BUILT FOR S

FIG. 9



INTERVALS	[0,4)	[4,5)	[5,10)	[10,49)	[49,MAX)
LABELS	000	001	010	011	100

THE SET OF INTERVALS FORMED FROM LOWER ENDPOINTS

FIG. 11A

INTERVALS	(0,0]	(0,3]	(3,8]	(8,30]	(30,35]	(35,50]	[50,MAX)
LABELS	000	001	010	011	100	101	110

THE SET OF INTERVALS FORMED FROM UPPER ENDPOINTS

FIG. 11B

A	[10,30]	011	011	011	011
B	[5,35]	010,011	01*	010,011,100	***
C	[0,3]	000	000	000,001	00*
D	[4,8]	001,010	0**	010	010
E	[49,50]	100	100	101	101

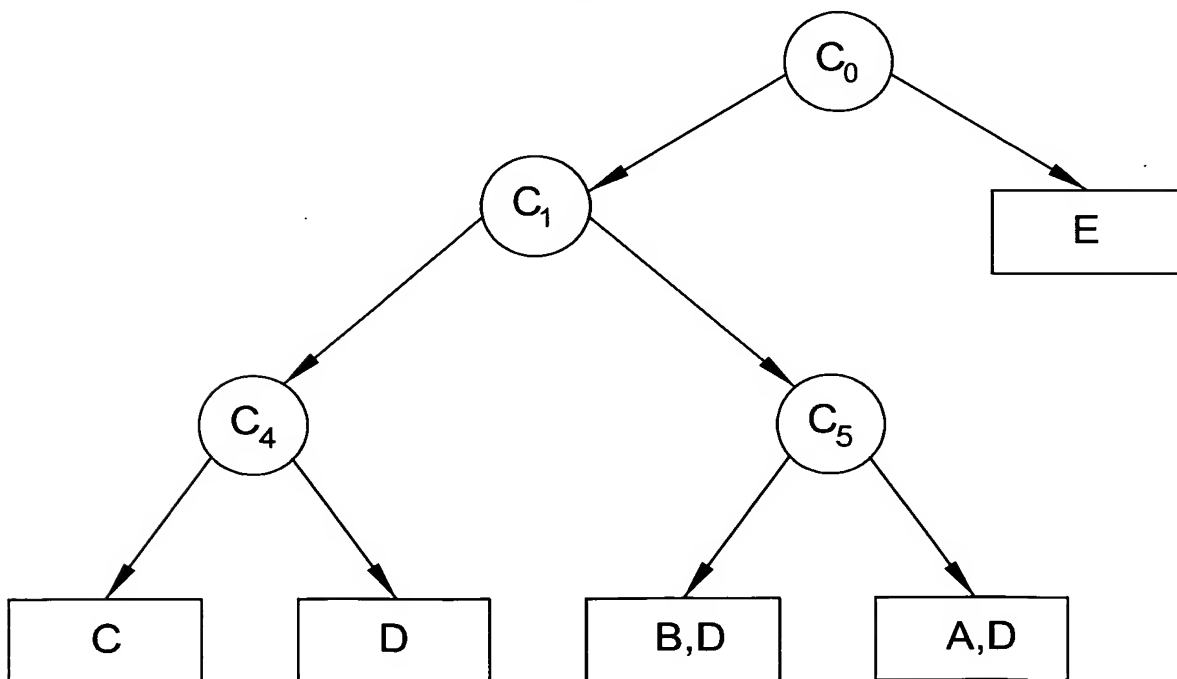
THE STEPS TO FORM THE MATRIX

FIG. 11C

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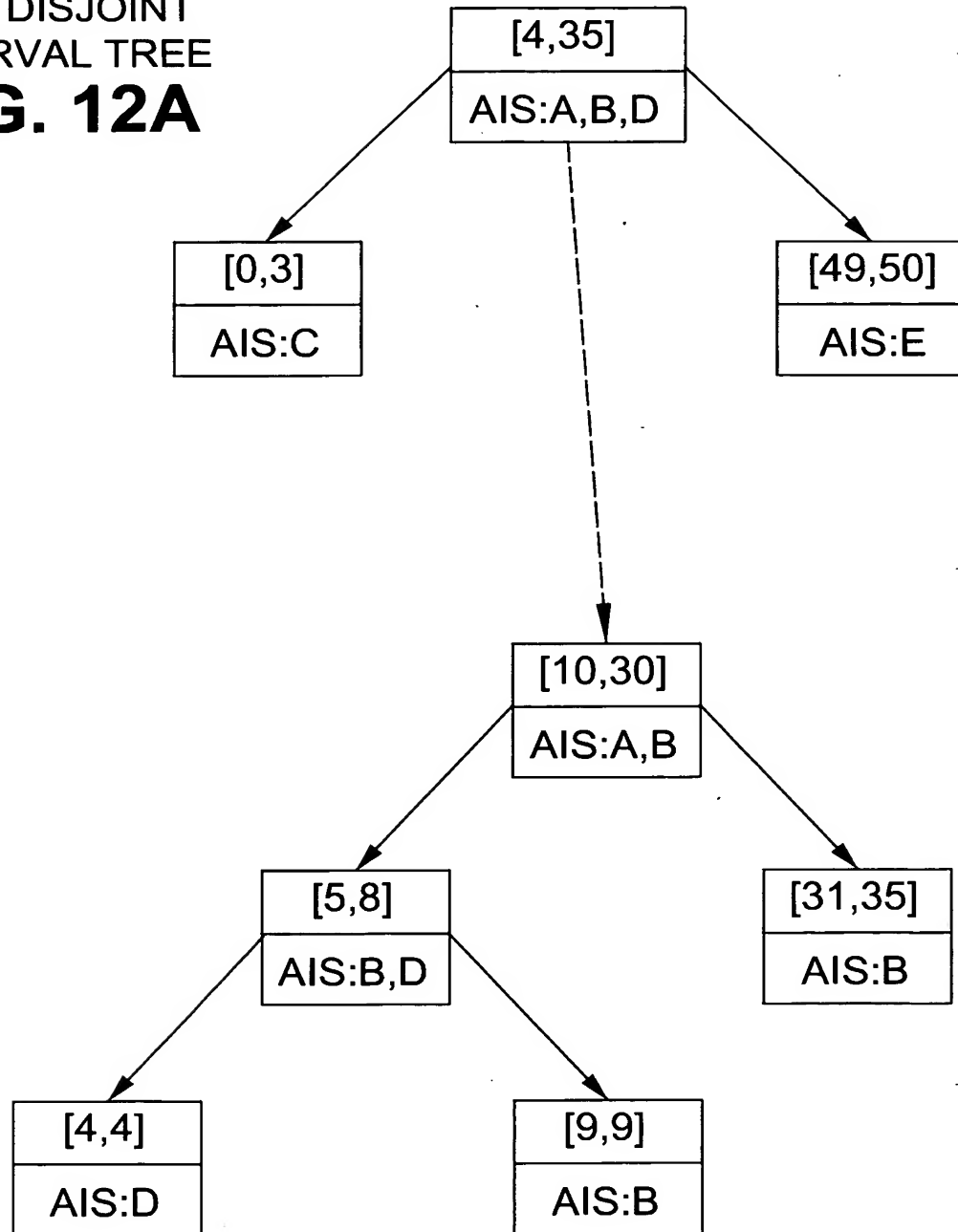
	C_0	C_1	C_2	C_3	C_4	C_5
A	0	1	1	0	1	1
B	0	1	*	*	*	*
C	0	0	0	0	0	*
D	0	*	*	0	1	0
E	1	0	0	1	0	1

THE MATRIX FORMED FOR THE SET OF INTERVALS
FIG. 11D



THE DECISION TREE BUILT FOR S
FIG. 11E

THE DISJOINT
INTERVAL TREE
FIG. 12A



THE ELEMENTARY INTERVAL TREE BUILT FOR S
FIG. 12B